

This is an official
CDC Health Advisory

Distributed via Health Alert Network
March 15, 2005, 14:50 EST (02:50 PM EST)

Possible anthrax exposure in Department of Defense Mail Facility

Samples taken from a mail facility at the Pentagon at a Remote Delivery Facility (RDF) on March 10 tested positive for *Bacillus anthracis*. The Department of Defense (DOD) briefed all personnel who may have had contact with the mail at the Pentagon RDF. These employees are being provided with antibiotics as a prophylactic measure. Based on the route of mail reaching the Pentagon, CDC has made the following public health recommendations for USPS postal workers at the V Street Postal Facility in Washington DC where the DOD mail was processed prior to being sent to the Pentagon:

- 1) Active medical follow-up should be initiated; that is, interviews with possibly affected workers for evidence of symptoms and review of sick leave records.
- 2) Although risk is considered low, based on an abundance of caution a course of prophylactic antibiotics (doxycycline or ciprofloxacin; both are equally effective) is recommended until tests determining possible exposure to *B. anthracis* at the V Street facility can be conducted.

CDC has also recommended DOD follow up immediately with other non-USPS commercial mail carriers that deliver to the DOD facility to share the information on:

- 1) Positive alarm signals
- 2) Recommendations for USPS workers, so that those carriers can take steps as needed to follow up with their employees.

Extensive environmental sampling will be conducted in the Pentagon's RDF and the V Street Postal Facility to determine the extent of anthrax contamination.

Clinicians and public health agencies are encouraged to heighten their surveillance for typical symptoms and exposure history for *B. anthracis*. Clinicians should report suspected or confirmed anthrax cases immediately to your local or state department of health.

Anthrax causes and transmission

Anthrax is caused by exposure to *B. anthracis* an encapsulated, aerobic, gram-positive, spore-forming, rod-shaped bacterium. Depending on the route of infection, human anthrax can occur in three clinical forms: cutaneous, inhalational, and gastrointestinal. Direct skin contact with contaminated animal products can result in cutaneous anthrax. Inhalation of aerosolized spores, such as through industrial processing of contaminated wool, hair, or hides, can result in inhalational anthrax. Hemorrhagic meningitis can result from hematogenous spread of the organism following any form of the disease.

The incubation period for anthrax is generally <2 weeks. However, due to spore dormancy and slow clearance from the lungs, the incubation period for inhalational anthrax may

be prolonged. This phenomenon of delayed onset of disease is not recognized to occur with cutaneous or gastrointestinal exposures.

Skin/cutaneous anthrax

Skin or cutaneous anthrax is the most common type of naturally-acquired infection. Infection begins as a pruritic papule or vesicle that enlarges and erodes (1-2 days) leaving a necrotic ulcer with subsequent formation of a central black eschar (Images at <http://www.bt.cdc.gov/Agent/cutaneous.asp>). The lesion is usually painless with surrounding edema, hyperemia, and regional lymphadenopathy. Patients may have associated fever, malaise and headache. Historically, the case-fatality rate for cutaneous anthrax has been <1% with antibiotic treatment and 20% without antibiotic treatment. There are rare case reports of person-to-person transmission of cutaneous disease.

See <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5042a1.htm#tab2> for specific treatment of cutaneous anthrax.

Inhalational anthrax

Inhalational anthrax is rare but is the most lethal form of the disease. Disease may initially involve a prodrome of fever, chills, nonproductive cough, chest pain, headache, myalgias, and malaise. However, more distinctive clinical hallmarks include hemorrhagic mediastinal lymphadenitis, hemorrhagic pleural effusions, bacteremia and toxemia resulting in severe dyspnea, hypoxia and septic shock. Widened mediastinum is the classic finding on imaging of the chest, but may initially be subtle (Images at <http://www.bt.cdc.gov/Agent/inhalational.asp> and in the appendices). Case-fatality rates for inhalational anthrax are high, even with appropriate antibiotics, and supportive care. Following the bioterrorist attack in fall 2001, the case-fatality rate among patients with inhalational disease was 45% (5/11). Person-to person spread of inhalational anthrax has not been documented.

- For case definitions, treatment guidelines, laboratory testing procedures, etc, see Anthrax Information for Health Care Providers <http://www.bt.cdc.gov/agent/anthrax/anthrax-hcp-factsheet.asp>
- For information on mail handler protection related to anthrax, see <http://www.bt.cdc.gov/agent/anthrax/mail/index.asp>

DHEC Contact Information for Reportable Diseases and Reporting Requirements

Reporting of anthrax or possible anthrax cases is consistent with South Carolina Law requiring the reporting of diseases and conditions to your state or local public health department. (State Law # 44-29-10 and Regulation # 61-20) as per the DHEC 2004 List of Reportable Conditions available at: <http://www.scdhec.net/hs/diseasecont/disease.htm>.

Federal HIPAA legislation allows disclosure of protected health information, without consent of the individual, to public health authorities to collect and receive such information for the purpose of preventing or controlling disease. (HIPAA 45 CFR §164.512).

District Public Health Offices

Mail or call reports to the District Epidemiology/Disease Reports office in each district.

Appalachia I

(Anderson, Oconee)
220 McGee Road
Anderson, SC 29625
Phone: (864) 231-1966
Fax: (864) 260-5623
Nights / Weekends: 1-(866)-298-4442

Appalachia II

(Greenville, Pickens)
PO Box 2507
200 University Ridge
Greenville, SC 29602-2507
Phone: (864) 282-4139
Fax: (864) 282-4373
Nights / Weekends: (864) 460-5355 or
1-800-993-1186

Appalachia III

(Cherokee, Spartanburg, Union)
PO Box 4217
151 E. Wood Street
Spartanburg, SC 29305-4217
Phone: (864) 596-2227 ext. 210
Fax: (864) 596-3443
Nights / Weekends: (864) 809-3825

Catawba

(Chester, Lancaster, York)
PO Box 817
1833 Pageland Highway
Lancaster, SC 29721
Phone: (803) 283-3175
Fax: (803) 283-0572
Nights / Weekends: 1-(866)-867-3886 or
1-(888)-739-0748

Edisto Savannah

(Aiken, Allendale, Barnwell)
1680 Richland Avenue, W. Suite 40
Aiken, SC 29801
Phone: (803) 642-1618
Fax: (803) 642-1619
Nights / Weekends: (803) 827-8668 or
1-800-614-1519

Edisto Savannah

(Bamberg, Calhoun, Orangeburg)
PO Box 1126
1550 Carolina Avenue
Orangeburg, SC 29116
Phone: (803) 533-7199
Fax: (803) 536-9118
Nights / Weekends: (803) 954-8513

Low Country

(Beaufort, Colleton, Hampton, Jasper)
1407 King Street
Beaufort, SC 29902
Phone: (843) 525-7603
Fax: (843) 525-7621
Nights / Weekends: 1-800-614-4698

Palmetto

(Fairfield, Lexington, Newberry, Richland)
2000 Hampton Street
Columbia, SC 29204
Phone: (803) 576-2749
Fax: (803) 576-2993
Nights / Weekends: (803) 304-4252

Pee Dee

(Chesterfield, Darlington, Dillon, Florence, Marlboro, Marion)
145 E. Cheves Street
Florence, SC 29506
Phone: (843) 661-4830
Fax: (843) 661-4859
Nights / Weekends: (843) 660-8145

Trident

(Berkeley, Charleston, Dorchester)
4050 Bridge View Drive, Suite 600
N. Charleston, SC 29405
Phone: (843) 746-3832
Fax: (843) 746-3851
Nights / Weekends: (843) 219-8470

Upper Savannah

(Abbeville, Edgefield, Greenwood, Laurens, McCormick, Saluda)
PO Box 3227
1736 S. Main Street
Greenwood, SC 29646
Phone: 1-888-218-5475
Fax: (864) 942-3690
Nights / Weekends: 1-800-420-1915

Waccamaw

(Georgetown, Horry, Williamsburg)
2830 Oak Street
Conway, SC 29526-4560
Phone: (843) 365-3126
Fax: (843) 365-3153
Nights / Weekends: (843) 381-6710

Wateree

(Clarendon, Kershaw, Lee, Sumter)
PO Box 1628
105 North Magnolia Street
Sumter, SC 29150
Phone: (803) 773-5511
Fax: (803) 773-6366
Nights / Weekends: 1-(877)-831-4647

Bureau of Disease Control

Acute Disease Epidemiology Division
1751 Calhoun Street
Box 101106
Columbia, SC
Phone: (803) 898-0861
Fax: (803) 898-0897
Nights / Weekends: 1-888-847-0902

Categories of Health Alert messages:

Health Alert: conveys the highest level of importance; warrants immediate action or attention.
Health Advisory: provides important information for a specific incident or situation; may not require immediate action.
Health Update: provides updated information regarding an incident or situation; unlikely to require immediate action.